

Title (en)

Platform for a side-heated electrothermal furnace for atomic absorption spectroscopy

Title (de)

Plattform für einen querbeheizten, elektrothermischen Atomisatorofen zur Atomabsorptions-Spektroskopie

Title (fr)

Plateforme pour un four électrothermique à chauffage latéral pour la spectroscopie d'absorption atomique

Publication

**EP 0603814 B1 19970730 (DE)**

Application

**EP 93120593 A 19931221**

Priority

DE 4243767 A 19921223

Abstract (en)

[origin: EP0603814A1] A platform for a transversely-heated, electrothermal atomiser furnace, the sample being directly exposed on a sample carrier (7) to the thermal radiation from the electrically heated tube inner wall, consists of mounting rings (4, 5) on the tube ends and flowed through by current, for mounting the sample carrier (7) as well as for the controlled limitation of the thermal expansion of the analyte atoms in the tube (2), the said mounting rings narrowing the tube cross-section, their external diameter corresponding approximately to the internal diameter of the furnace tube and their breadth in total amounting to less than 40% of the tube length, at least one individual mounting ring (4, 5) being permanently connected to the sample carrier (7) and forming the platform with the latter in material unity, and the sample carrier (7) itself having no electrical or direct thermal contact with the tube wall. <IMAGE>

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